
SAFETY DATA SHEET

C15 Energy Cell

1 - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation:

Name: Gas cartridge

Product code: C15

Company/undertaking identification:

Registered company name:

Address:

Telephone:

Email :

Emergency telephone:

Association/Organisation: Swedish Match

Other emergency telephone numbers:(+)31-653545373

Use of the substance/preparation: C15 , small gas containing Receptacle to be used as Gas Cartridge or Energy cell.

2 - HAZARDS IDENTIFICATION

The gas cartridge contains Liquefied Petroleum Gases. Cartridge may burst individually when exposed to high temperatures such as open flame.

Energy cells as such do not present a health hazard.

Risk of explosion of individual Energy cell when submitted to unforeseeable abnormal shock, unforeseeable abnormal friction.

The gas, when released from the cartridge outside the appliance and without burning (improper usage of the C15) does have the following identified hazards:

EU classification: Extremely Flammable

Human health hazards: Exposure to high vapour concentrations can lead to nausea, headache, dizziness, and in extreme cases, loss of consciousness and death in oxygen deficient environments. Prolonged exposure to vapour may affect the central nervous system.

Safety hazards: Contact with liquid LPG can cause cold burns.
Extremely flammable liquefied gas, readily explodes in the presence of source of ignition or flame impingement on containers. The vapour is heavier than air, spreads along the ground and distant ignition is possible.

Environmental hazards: No specific hazards under normal use conditions. Liquefied Petroleum Gases are very volatile liquids which on loss of containment will react rapidly with hydroxyl radicals and ozone.

Preparation classification:



H220: Extremely flammable

3 - COMPOSITION/INFORMATION ON INGREDIENTS

Full text of risk phrases appearing in section 3: see section 16.

Hazardous substances present on their own:

C15 Cartridges contain a preparation of Liquefied Petroleum Gasses.

This preparation has 100% maxi of Butane(60% n-Butane + 40% iso-Butane), 1% maxi of Propane, 150 ppm maxi Sulfur

Other substances representing a hazard:

CAS: 68476-85-7 EC: 270-704-2 Petroleum gases, liquefied

This LPG is of natural source and has < 01% 1,3 butadien

4 - FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

In case of hazardous burning on a person, put out the fire and pour water over the burning parts for a longer period. Do not use fats on the burning parts. Do not remove the clothes in the burning region.

In the event of exposure by inhalation:

Remove the affected person to fresh air. Keep warm and at rest. If the casualty is stupor, some physical restraint may be necessary to prevent injury. If breathing but unconscious, place in the recovery position. If breathing has stopped, apply artificial respiration. If heartbeats absent, give external cardiac compression.) Monitor breathing and pulse. OBTAIN MEDICAL ATTENTION IMMEDIATELY.

In the event of splashes or contact with eyes:

DO NOT DELAY. Flush eye with copious quantities of water to normalize temperature. Cover eye with a sterile dressing. OBTAIN MEDICAL ATTENTION IMMEDIATELY.

In the event of splashes or contact with skin:

Drench affected parts with water to normalize temperature. Remove contaminated clothing, rings, watches, etc., if possible, but do not attempt to do so if they are adhering to the skin. Do not attempt to reheat the affected parts rapidly – reheat slowly. Cover with a sterile dressing. Do not apply ointments or powders. Note that contaminated clothing may be a fire hazard. Contaminated clothing should be soaked with water before being removed. It must be laundered before reuse.

In the event of swallowing:

In the unlikely event of ingestion, obtain medical attention immediately.

5 - FIRE-FIGHTING MEASURES

For extinguishing use Carbon dioxide dry chemical or water spray.

Special protective equipment for fire-fighters:

Protection from bursting C15 Cartridge is required if it's subjected to high temperature or open flames.

6 - ACCIDENTAL RELEASE MEASURES

Personal precautions:

Gas cartridges should only be used for the purpose and as refill for the appliance as mentioned on the consumer packing. Follow the written instructions.

Consult the safety measures listed under headings 7 and 8.

Environmental precautions:

LPG will evaporate as soon as it is released from the cartridge

Dispose of waste recovered in accordance with applicable regulations (see heading 13).

Methods for cleaning up: n.a.

7 - HANDLING AND STORAGE

The regulations relating to storage premises apply to workshops where the product is handled. Ask local government for regulations for storage of dangerous goods.

Handling:

Do not puncture or put in fire.

Do not expose the Gas Cartridge to heat or high temperature (> 50°C, 122°F) .

Avoid direct contact with acid and solvents.

Do not put the Gas Cartridge in full sunlight.

Fire prevention:

Avoid the storage of Gas Cartridges close to highly flammable materials.

No smoking and open fire during handling and storage.

Recommended equipment and procedures:

For personal safety, see §8.

Be sure the Gas Cartridge is detached from any portable appliance when not in use.

Prohibited equipment and procedures:

Do not store the Gas Cartridge at high temperature or close to a heat source

Storage:

Gas cartridges should be stored in the original packing.

It is suitable to store the Gas Cartridge between -10 and + 50 in dry and well ventilated places.

Do not store the Gas Cartridge in full sunlight.

Specific use(s):

Containers for Gas Cartridges shall be well ventilated.

Cartons of Gas Cartridges are conform to UN 2037.

Labeling:

Butane Cartridge



DANGER

Hazard statement

Extremely flammable gas

Precautionary statements

Keep out of reach of children

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Avoid breathing gas

Do not handle until all safety precautions have been read and understood

Store in a well-ventilated place.

Distributor:

8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

No specific personal protective equipment.

Gas cartridges should only be used for the purpose and as refill for the appliance as mentioned on the consumer packing.

Follow the written instructions.

Protection from bursting Gas Cartridges is required if they are subjected to high temperature or open flame.

For further information, see § 11 of S.D.S. - Toxicological information.

According to Regulation EU) No 850/2015

9 - PHYSICAL AND CHEMICAL PROPERTIES

General information for the LPG inside the Cartridge:

<i>PHYSICAL STATE:</i>	Liquefied Petroleum Gases under pressure
<i>COLOR AND ODOR:</i>	Colorless with faint disagreeable odor.
<i>CHANGE IN PHYSICAL STATE:</i>	Boiling point at 1 atm: -1°C.
<i>FLASH POINT:</i>	- 40 °C
<i>AUTOIGNITION TEMPERATURE:</i>	Minimum temperature at 1 atm: 410°C.
<i>FLAMMABLE LIMITS IN THE AIR:</i>	Lower limit at 20°C, 1 atm: 1.44 Vol%.
<i>EXPLOSION PROPERTIES:</i>	Upper limit at 20°C, 1 atm: 8.5 Vol%.
<i>VAPOUR PRESSURE:</i>	circa 345 kPa at 20 °C
<i>VAPOUR DENSITY (air=1):</i>	circa 2 at 15 °C
<i>DENSITY(liquid phase):</i>	563 kg.m-3.
<i>SOLUBILITY:</i>	insoluble in water

10 - STABILITY AND REACTIVITY

The liquid gas kept inside the Gas Cartridge is stable at the handling and storage conditions recommended per § 7 of this Safety Data Sheet,

Materials to avoid:

Instabilities mainly characterized by burst may occur when the Energy cell is exposed to excessive heat.

Hazardous decomposition products: CO₂, CO or open flame.

11 - TOXICOLOGICAL INFORMATION

No acute toxicity nor local effect. Used Specification of LPG: Butadien < 0,1%

Touchable parts tested by BureauVeritas (report 25413-024-129377) on Lead, Cadmium, PAH and Phthalates content. All not found or far below limits of REACH regulations.

12 - ECOLOGICAL INFORMATION

The by-products from degradation of Gas Cartridges are CO₂ and H₂O.

13 - DISPOSAL CONSIDERATIONS

Damaged Gas Cartridges are to be returned to distributor or manufacturer.

Empty Gas Cartridges may be disposed at suitable landfill or conformed to the local legislation.

Do not incinerate or puncture.

14 - TRANSPORT INFORMATION



- 14.1 UN Number ADR: 2037
UN Number IMDG: 2037
UN Number ICAO: 2037
- 14.2 Proper shipping name:
Receptacles, small, containing gas(flammable), without a release device,
non refillable.
- 14.3 Transport Hazard class:
ADR: class 2, code 5F Transport code: 2(D)
In compliance ADR special note 191, C15 Energy Cells are exempted for
ADR!
IMDG and ICAO: Class 2.1-flamable gases

INTERNATIONAL REGULATIONS: **LAND:** RID, RTMD, DoT 49 CFR, ADR
AIR: IATA-DGR, Icao-it.
SEA: OMI, IMDG.

15 - REGULATORY INFORMATION

Signal word: DANGER

Hazard Statements

H220 Extremely flammable gas

Precautionary statements

P102 Keep out of reach of children

P202 Do not handle until all safety precautions have been read and understood

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P251 Pressurized container – Do not pierce or burn, even after use

P261 Avoid breathing dust/fume/gas/mist/vapours/spray

P308+313 IF exposed or concerned: Get medical advice/attention

P371+380+375 In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion

P403 Store in a well ventilated place

P410+412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

According to Regulation EU) No 850/2015

Other information:

REACH: The used LPG, being from natural source having a b1,3 butadien content <01% is exempted for REACH.

ADR and IMDG: Chapter 3.3.1 , special rule 191: Receptacles with a capacity not exceeding 50 mℓ containing only non-toxic constituents are not subject to the provisions of this Code.

Particular provisions:

Extremely Flammable

Content under pressure

Do not puncture or put in a fire.

Keep away from extreme heat

Never expose to heat above 50°C or to prolonged sunlight.

Be sure the Gas Cartridge is detached from any portable appliance when not in use.

Keep away from small children.

Misuse may cause serious injury.

16 - OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations. The product must not be used for any purposes other than those specified under heading 1 without first obtaining written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information given on this safety data sheet must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties

Each individual Gas Cartridges is tested in compliance to Swedish Match SP 104.

It should be pointed out that the product is not a chemical product as per definition § 3-11 of ISO 11014-1, but only one part of it, is a chemical product.

The Gas Cartridge is designed to bring a safe use of the dangerous chemical product, after careful reading of the safety notice.

However, this Safety Data Sheet has been written as if Gas Cartridges were chemical products.

Section 9 does not apply to the Gas Cartridge but to the chemical product confined hermetically in a reservoir equipped with a controlled evaporation system.

The purpose of this Safety Data Sheet is to help the receiver with the use of this product.

This list of information is not exhaustive and do not keep the receiver from making sure that other relevant obligations might specifically be attributed to his concern.

For Europe, within the REACH regulation, the Gas Cartridge is seen as an article containing LPG.

LPG, being a liquefied mixture of natural gases, is exempted for REACH as long as the Gas Cartridge is used in the intended manor: Gas should only be released from the Cartridge when placed with unique fitting in an Appliance designed to open it.